ApaI EcoO

BY (1.17. 111. 11.18. S. 13.2   S. 1	A-1 <sub>10</sub> 20 30 40 50 60 70 GGAGGTATAGGAAACCAGGAGTCCGAAGATCTAAGGAGAGCTGGGGGTTTGACTCC B9111	95 105 115	AGTCCCCAAGACCTGGTCTTGACTCACGAGTTAGA PflMI	Tthllll	0 170 180 190 200 210 220	GTCTACACCTCTAAGGGCGACACTGGGCTCAAGCAGACTGCCGTTTTCTATATGGGATGAGCCTTCACAGGGCAG	5 245 255 265 275 285 295	CCAGTTGGGATGGGTTGAGGTTTGGCTGTAGACATCAGAAACCCAAGTCAAATGCGCTTCAACCAGTAGAAAATT	0 320 330 340 350 360 370	CACCAGCCCGCAGAGCTAAGGTTGGGTGGACATTAGGGTTGGTT	Saci	5 395 405 415 425 435 445	CCAGCTCCTTCTGCCCCACCCCACCATCTTCAGTGCTGCTTCCTCAAGGCCACAGACTGTAGTTGGCCAGGGGG
	<b>1A-1</b> <sub>10</sub> GAGGTATAGGAGCTCTTC  Sac1		GAGAGCTCGAGCAGTCCCCAA Saci Pflm	XhoI	160	GTCTACACCTCTAAGGGCGAC	235 24	CCAGTTGGGATGGGTTGAGGT	310 32	CACCAGCCCGCAGAGCTAAGG		385 39	CCAGCTCCTTCTGCCCCACCC

					Á	PvuII	Ball
							BglI
	460	470	480	490	200	510	520
GCTTCA!	GCTTCATTATTTTTGCTCCTGGGCAGTAGGAGGAAGAATGAAT	rccregecae	STAGGAGGAA	GAGAATGAAT	'GTCTCTCCA'	regerettr	CTTAGGAATGT
					NCOI	н	
	535	545	555	565	575	585	595
GGGAAC	GGGAACTITITCCAGAAGTCTCTATGTCTTTTAGTTTGTGTTGGGTCACTTGCCCTTCCTGAACCACTTCCTGAC	STCTCTATG	CTTTTAGTT	TGTGTTGGG	CACTTGCCC	<b>LTCCTGAAC</b>	CACTTCCTGAC
	610	620	630	640	650	099	670
TCCTGG	ACAGGATGTGC?	ACTGATGAGG	TTAGCTTTG	GGGATCTAAT	PAGTGACTTT	ACAAAGCCT	TCCTGGACAGGATGTGCACTGATGAGCTTAGCTTTGGGGATCTAATAGTGACTTTACAAAGCCTCTTTGAGAAGG
	ApaLI		EspI				
	685	695	705	, 715	725	735	745
TGACAT	TGACATTGGAACCAAGGCTTGAGCAGACACAACAAGATTGCAGGGAGGG	CTTGAGCAGA	CACAACAAA	GATTGCAGG	SAGGGGCATT	SCAGGTGGA	SGAAACGGCAC
						BspMI-	
	160	770	780	790	800	810	820
ATGCAAC	SAGCCCTGCGTC	GGAGTGAGC	TTGGTGTTT	GGTCAATCAG	STTGTCAGAG	CACACCGGG	<u> ATGCAAGAGCCCTGCGTGGGAGTGAGCTTGGTGTTTGGTCAATCAGTTGTCAGAGCACACCGGGCCCTGTCAGCA</u>

CCAGCTCCTTCTGCCCCACCCACCATCTTCAGTGCTGCTTCCTCTCAAGGCCACAGCTGTAGTTGGCCAGGGGG

# BEST AVAILABLE COPY

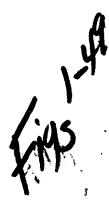


FIG.

que que

BspMI 1795

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StuI 1745

1735

AFFROITS (), C. F I G. Lyng SY CI.ASS SUBCLASS GO. TSIAM SZO 326	$7A-2_{835} \qquad \qquad$	ATCCCTCTGTTGTGGGTGGAAGGAAGGTTGCAGTGTGTGT	1090 1100 1 GGGAGTGTTTTCTTCTGAAAGGT 1165 1175 1 GGTTGCTTGTCCCAGGCCCTGTC	1210 1220 1230 1240 1250 1260 AGAGGGATGAGTTTGGGGGTTGTTCATAAGCAGATCTCTTTGAGCAG EcoO	1295 1305 1315 1325 1335  TGTGAGGCTGGAGGGGTTTCCCTTATGGAATCCAGGCAGATGTAGCATTTA  Drai	1360 1370 1380 1390 1410 1420 CACGTGTATAAAAGAAACTGTCCACAAAGTTTCTGGGATAAGACTACATGAGAGGAA CACGTGTATAAAAGAAACTGTCCGCAGAAGGTTCCAGAAAGTATTATGGGATAAGACTACATGAGAGGAA 1435 1445 1455 1465 1475 1485 TGGGGCATTGGCACCTCCCTTAGTAGGCCTTTGCTGGGGGTAGAAATGAGTTTTAAGGCAGGTTAGACCCTCGA	1530 CCCAGCGTTCTGTGCTTCATTGCTGTTCA 1605 1615 1625 TCTCCTCACTGGGCTCTGCTTCTTCACTTC 1680 1700 TAAGAAGCACGAGGTGTATGTCAGCTTCG
	FIG.		1060 ACCCCTGTATCAT 1135 TCTGCTGTCTCATT	1210 CTGCAGAGGGATGA PstI	1285 GCAGTGGCCTTGTG tI	1360 CACGTGTATAAAAG 1435 TGGGGCATTGGCAC	1510 ACTGGCTTTTGAAT 1585 GAGGAACTTTGATG 1660
88	ers3/	[10]					

ApaI EcoO

TAAGGGGCTGGCTGTGTTTGGTGTGTGGCCCTCTGGCGTGGGCTCCCACAGGCAGCGGGTGCTGTGCTCA

off

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SUBCL.:SS	1850 1860 1870 CCTCGCTAGGGAAGGGTACTTGGCTAAGGA 1925 1935 1945 .GGGAGCCAGCATGGGTGATGCCATTATGA 2000 2010 2020 TGTTTAAGGTGAACTGCCAGTGTGACCA Dr	2095 SAAGACACAGC N 2170	11AGAAA1GGG 2245 3TCTTCCCACT	2320 ACCATGAGAGG 2395 TTGGTCGTGAG	2470 2545 26CTTCCCTC 2620 TGGGGTGTGG	BS 2695 ATGTCAGCCC
APPROITY O.C. FIG. Long BY CLASS SUBCLASS ORAFTERM 530 326	1860 3GGAAGGGTAC 1935 AGCATGGGTGA 2010 STGAACTGCCA	2085 SGTTCTGTCCA( 2160	2235 CTTTGACGCCG	2310 TTCTTTTGGG XI 2385 GGCTTTCACC1	1420	BS 2695 2685 2695 2695 2695 2695 TGCGGGGGCCACCAGATCTGCTGCTCCAAGCTGGGGCCTGAGTAGATGTCAGCCC ECOO
	1850 GGCCTCGCTA( 1925 GGGAGCCA	2075 TCCTGTGCCGC	2225 GCTCACCGCAG	2300 CCTTCTTTCCATT BS LXI 2375 GCATGGTCTGAGG	2450 CCAGGCTTCTG 2525 CTACTACTGTG I 2600 SCTGGTGGGTG	2675 CTCCAAGCTGG
	1840 CAGTATCAAGT 1915 S)	2065 CCGGAGCTCCT SacI 2140	2215 STGTGATCATA	2290 ATAGAGTGGT 2365 TGCTCAGAAG	2440 2515 2515 GCTACGCGCGC BSSHII 2590 TCGTGCAGACG	2665 ATCCTGCTGC
	1830 GTTAAGACTCC 1905 1000 BASES 1980 GGGCAAACCGA	2055 TTGCCTCACAC	2205 3GGTGCAGTGC	2280 AGGCCAAGACT 2355 CTGGGCCCTGC Apal ECOO	2430 2430 2505 3GGGCTGAAG 2580 2580	2655 GGGCCACCAG
	1820 CATCTCTGCCA 1895 (APPROX. 1970 TCTGGCAGGT BSPMI-	2045 GAGCTGATGA 2120	2195 CACCCAGGCT	260 2270 AAGCTTGGACTATA HindIII 2345 TTTCCTGCCCCTGG	2420 TTTCTTTCAGC 2495 ACTGGATCATC 2570 FGAACGCCACC	2645 3GCAGGCTGCG
	1810	CCTAGTGGGGTAGAGCTGATTGCCTCACACCGGAGCTCCTTCCT	CAISCALLINGALING CARGO CONTROLLING INTERNATIONS COI COI 2185 2195 2205 2215 2225 2235 2245 GTCTTGCTCTGTCACCCAGGCTGGTGTGTGATCATAGCTCACCGCAGCTTTGACGCCGTCTTCCCACT	2260 2270 2280 2290 2300 2310 2320 CAGTCTACTAGGCCTATAGGCCAAGACTATAGAGTGGTCCTTCTTTCCATTTTTGGGACCATGAGGG HindIII 2335 2345 2355 2375 2385 2395 CCACCCATGTTTCCTGCCCTGCTGGTCCTCAGAGGCATGGTCTGAGGCTTTCACCTTGGTCGTGAG	2410 2420 2430 2440 2450 2460 2460 2470  CCTTCGTGGTGTTTCTTTCAGCATGGGTTGGGATGCTGTGCTCTGCATGGTTTCCCACACTCTTT	2635 2 TCACCTGGGCCGGGCAGGC tEII BglI
	<u>C</u>					



926 058 HATTOLING	2770	2760	2750	2740	2730	2720	1A-4 <sub>2710</sub> 2720 2730 2740 2750 2760 2770
	0		White the				

<b>1A-4</b> <sub>2710</sub>	2720 CTTTTGGGGGCC	2720 2730 2740 2750 2760 2770 TTTGGGGGCCCCTTGCGCTTAAAAAAAATCAAAAATTGTACTTTATGACTGGTTT	2740 TTAAAAAAAA	2750 ATCAAAAATT	2760 STACTTTATGA	2770 CTGGTTT
2785		ApaI EcoO 2795 2805 2815 2825 2835 2845	2815 Septemble	2825 COTA A PUPUPU	2835 \$AAGTAACTAA	2845 AAGTTGT
2860		2880	2890	Dra	[ 2910	2920
ATGGGCTCCTTTGAGGA		TGCTTGTAGTATTGTGGGTGCTGGTTACGGTGCCTAAGAGCACTGGGCCCCTGCTTCA Apai Ecoo	CTGGTTACGG	TGCCTAAGAG	CACTGGGCCCC ApaI Ecoo	TGCTTCA
2935	2945	2955	2965	2975	2985	2995
TTTCCAGTAGAGGAAA	AACAGGTAAACA	CAGGTAAACAGATGAGAAATTTCAGTGAGGGGCACAGTGATCAGAAGCGGGCCAGCAG	TTCAGTGAGG	GGCACAGTGA:	rcagaagegg 2060	CCAGCAG
3010 GATAATGGGATGGAGAG		3020 ATGAGTGGGGACCCATGGGCCATTTCAAGTTAAATTTCAGTCGGGTCACCAGGAAGAT	3040 CATTTCAAGT	3050 TAAATTTCAG	3060 rcgggtcacca	SCAAGAT
		Ecoo Ncol		1	BSTEIL	i.
3085	3095	3105	3115	3125	3135	3145
TCCATGTGATAATGAGA	GATTAACGTGCC	TTAACGTGCCCAGTCACGGCGACACTCAGTAGGTGTTATTCTGCTCTGCCAACAGCA 3170 3180 3180	GACACTCAGT	AGGTGTTATTO 3200	3210 3210	3220
ACCATAGTTGATAAGAG	AGCTGTTAGGGA	CTGTTAGGGATTTTGTCCTTTTGCTTAGAATCCAAGGTTCAAGGACCTTGGTTATGTA	TTGCTTAGAA	TCCAAGGTTC	AGGACCTTG	TTATGTA
3000	27.4	2266	3265	3275	3285 3285	3295
3235 GCTCCCTGTCATGAACA		TCATCTGAGCCTTTCCTGCCTACTGATCATCCACCCTGCCTTGAATGCTTCTAGTGAC	TACTGATCAT	CCACCCTGCC	TGAATGCTTC	TAGTGAC
3310	3320	3330	3340	3350	3360	3370
AGAGAGCTCACTACCAG SacI	AGGACTACTCCC	GACTACTCCCTCCTTTCATTTAGTAATCTGCCTCCTTCTTTTCTTGTCCCTGTCCTGT	TAGTAATCTG	CCTCCTTCTT	rrctrgrccci	GTCCTGT
3385 GTGTTAAGTCCTGGAGA		3395 3405 3415 3425 3435 3445 AAAAATCTCATCTTTGAGGGCAGGGGTTTTTGTTT	3415 CATTTGATTC	3425 TGCTCTTTGA(	3435 3GCAGGGGTT	3445 TTTGTTT
3460 CTTTGTTTGTTTTTA	3470 FAAGTGTTGGTT	3470 3480 3490 3500 3510 3520 AGTGTTGGTTTTCCAAAGCCCTTGCTCCCTCCTCAATTGAAACTTCAAAGCCCTCAT	3490 CTTGCTCCC	3500 TCCTCAATTG	3510 AAACTTCAAAG	3520 CCCTCAT
3535 3595 3595 3595 3595 3595 3595 3595	3545 FTAGGCTGGAAA	3555 CAGAAGAGTC	3565 CTCCCCAACC	3575 TGTTCCCTGG	3585 CTGGATGTGC	3595 TGTGCTG
EcoOMstI	LII					

CLASS SUBCLASS APPROVED O.G. FIGHER 520 | 326 087.715.15.1 8.7

FIG. 1A-53610

APPROVED O.G. FIG. WORLD GY CLASS SUBCLASS GREAT FRAME \$30 326

# FIG. 1A-6

GAAACATGGTGGTCCGGGCCTGTGGCTGCCACTAGCTCCTCCGA



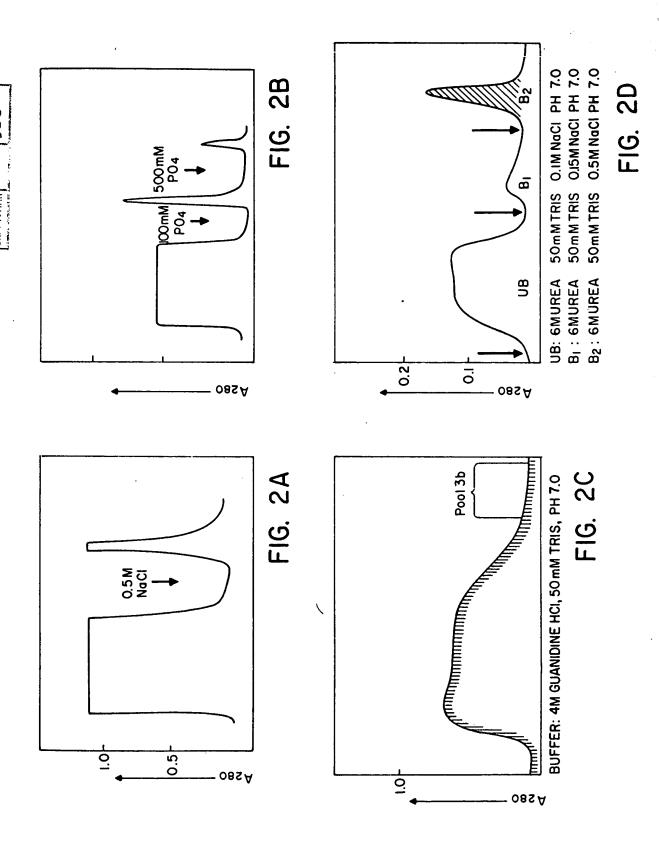
APPROYED O.G. FIGNORE
BY CLASS SUBCLASS
GRATTESHIS 530 326

# FIG. 1B

•	CONSENSUS PROBE 20 30 40 50 50 60 70 70 50 40 70 50 40 70 50 70 TGATCGTGGGCTGGGCTGGGTCGTCGCCCCGTCGTCGTCGTCG	20 GTGGACTTC TATGTCAGC	30 CAGCGCGACC ** *** TTCCGAGACC	40 CGCGACGTGGGCTGGG2 ** *** ******	50 ACGACTGGATCATCGCCCC ********************************	60 ATCGCCCCGI	70 CG AG
	OP4 28	38	48	58	68	78	88
	CTACTACT ****** CTACTACT	GCTCCGGAG * ** GTGAGGGGG	CCTGCCAGTT ** ** AGTGTGCCTT	TTCCCCTCTGCC ***** TTCCCTCTGAAC	GATCACTTCA ** * TCCTACATGA	AACAGCACCAACCA *** **************************	8 * S
	98 1	108	118	128	138	148 1	158
	CGCCGTGGTGCAGACCAGACAACATGAACCCCGGCAAGGTACCCAAGCCCTGCTGCGTGCCCACC  **** ***************************	GGTGAACAA *** **	CATGAACCCC	GGCAAGGTAC	GGTACCCAAGCCCTGCTG *** **********	CTGCGTGCCCAC	) ) ) ) ) )
	CGCCATCGTGCAGACGCTGGTCCACTTCAACCCGGAAACGGTGCCCAAGCCCTGTGTGCGCCCACG	TGGTCCACTT 178	CATCAACCCG 188	GGAAACGGTGC 198	CCAAGCCCTG 208	CTGTGCGCCCA 218	ACG 228
	220 230 240 250 260 270 280 CAGCTGTCCGCCATCAGCATGTCCACCGTGTGCTGAAGAACTACCAGGAGA **** *** *** *** *** *** *** ***	230 CATGCTGTACO	240 CTGGACGAGA	250 ATTCCACCGT *** ***	260 GGTGCTGAAG	270 2 CTGAAGAACTACCAGGA ****** ***	280 AGA *
	CAATGCCATCTC 238	CGTCCTCTAC 248	TTCGATGACA 258	GCTCCAACG1 268	CATCCTGAAG 278	aaatacagaaa 288	ACA 298
	290 310 TGACCGTGGTGGGCTGCGGCTACTGCA ** ** ** ** ** **	300 310 CTGCGGCTGCCGCTAACT *** *** ** **	310 AACTGCA * **				
	TGGTGGTCCGGGCCTGTGGCTGCCACTAGCTCCT 318 328	GGCTGCCACT	AGCTCCT 328				



### MZ**621988**

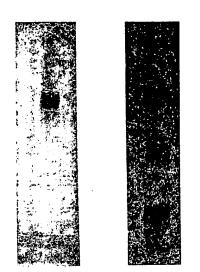


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APPROYEU O.G. FIG. 10 - 1

CLASS SUBCLASS

FIG. 3A FIG. 3B FIG. 4A FIG. 4B



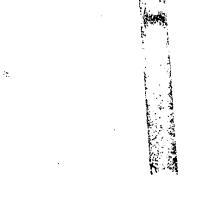


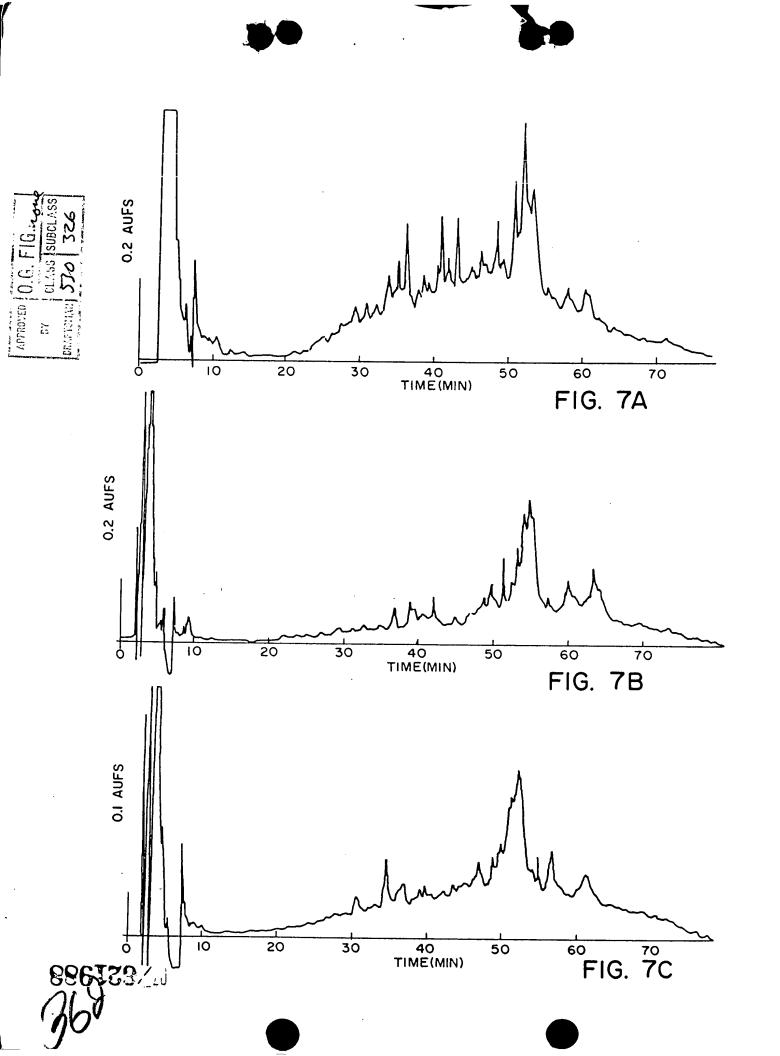
FIG. 5 В

### FIG.6 A FIG.6 B FIG.6 C FIG.6 D FIG.6 E

FIG. 15

	JUUUUN			
		 NON	-REDUCIBLE	30K
			SUBUNIT	
400	ineli i	 16K	SUBUNIT	

38613371)









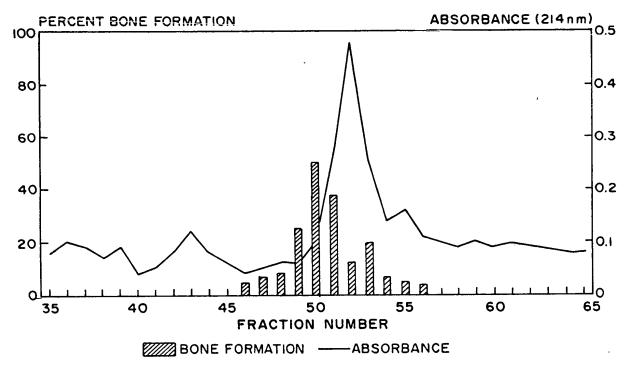


FIG. 8

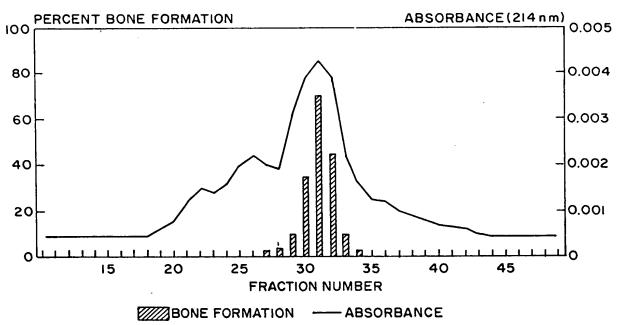


FIG. 9

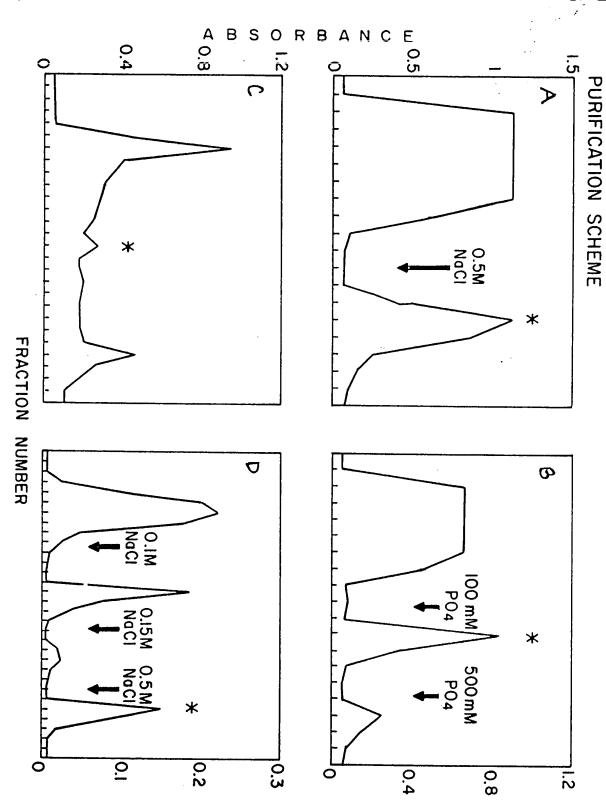
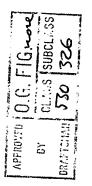


FIG. 10







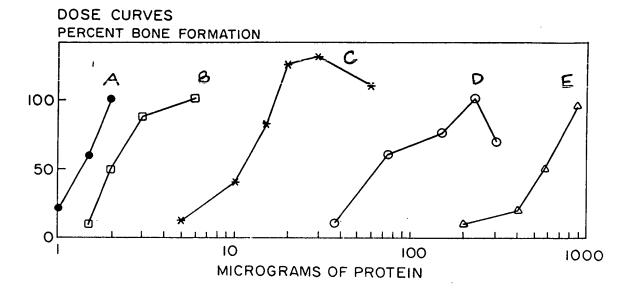


FIG. 11

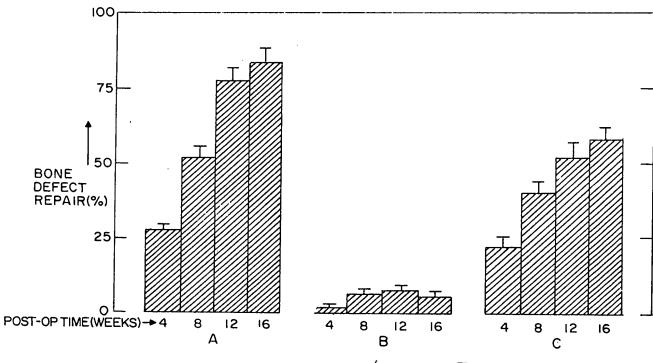


FIG. 12

APPROUTU O.G. FIGERAL
SY CLASS SUBCLASS
DRAFTSTAN SSO 322

#### FIG. 13

30 40 20 10 GATCCTAATGGGCTGTACGTGGACTTCCAGCGCGACGTGGGCTGGGACGA D P N G L Y V D F Q R D V G W D D 90 70 80 CTGGATCATCGCCCCGTCGACTTCGACGCCTACTACTGCTCCGGAGCCT WIIAPVDFDAYYCSGA 140 130 120 110 CQFPSADHFNSTNHAVV 190 - 180 170 CAGACCCTGGTGAACAACATGAACCCCGGCAAGGTACCCAAGCCCTGCTG Q T L V N N M N P G K V P K P C C 240 230 210 220 CGTGCCCACCGAGCTGTCCGCCATCAGCATGCTGTACCTGGACGAGAATT V P T E L S A I S M L Y L D E N 290 270 280 CCACCGTGGTGCTGAAGAACTACCAGGAGATGACCGTGGTGGGCTGCGGC S T V V L K N Y Q E M T V V G C G 310 TGCCGCTAACTGCAG

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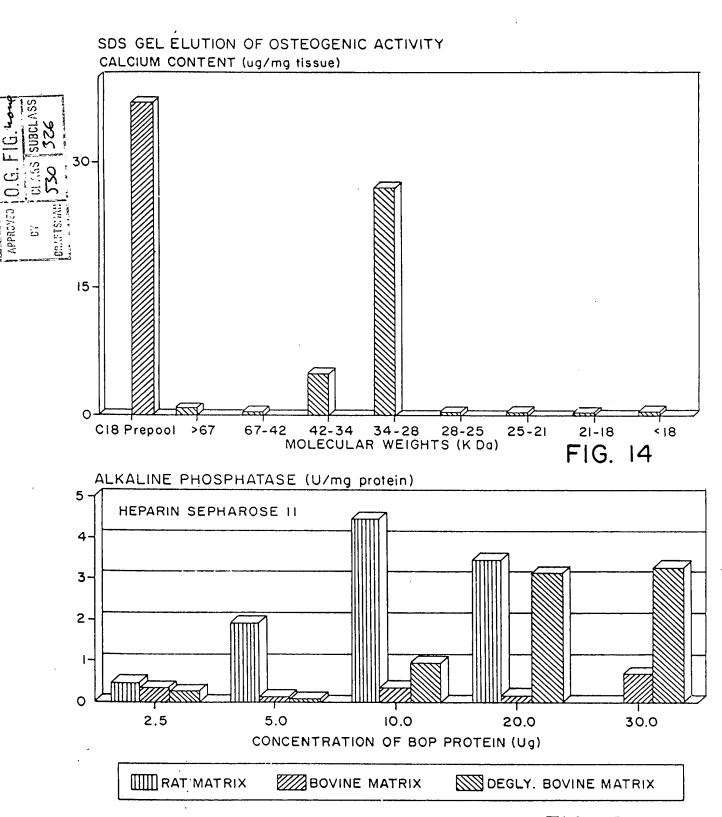
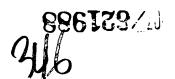


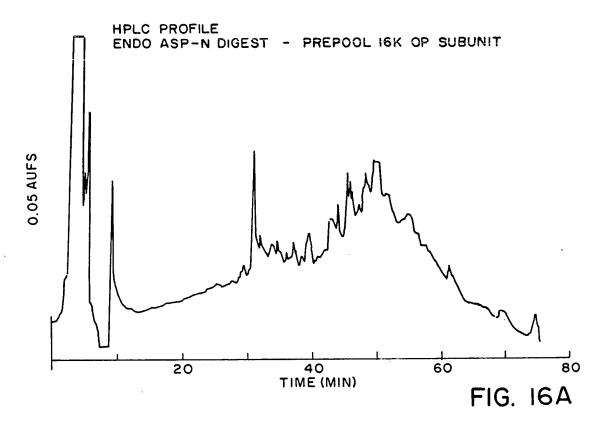
FIG. 19

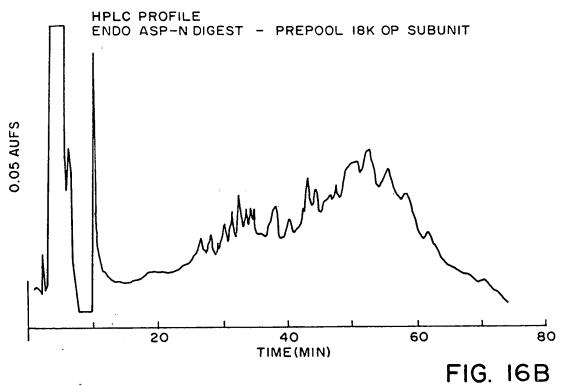












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FIG. 17A

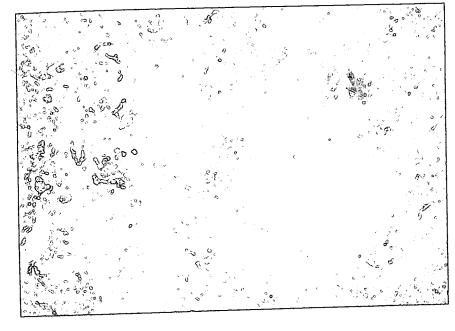


FIG. 17B

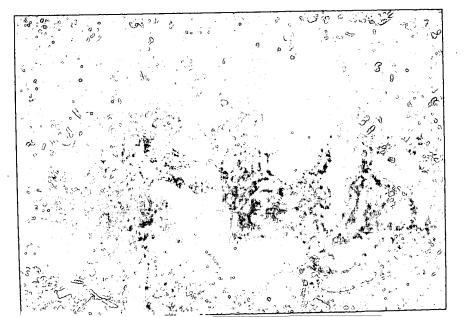


FIG. 17C

	consensus	choices		ບ .	k, r	k, r	, r,	p,s,e,q	<b>,</b>	у, £	٦,	d,e,s		k,r,s		ק	v, l, i	ס		മ	d,e,n	<b>3</b>	), ľ	i,v	a, s		e'd'b*	g ' g	y, f	h,d,n,q,y*	ര
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FIG. 18-1

y,f,n y,f,n	ບ	e,h,*	д	e,a*	ပ	p,a,g,q	χ,	Qι	l,m,i	p,a,s,t	d,e,s,g*	h,r,n, s*	1,1,f,p,sa	n,k	s,a,p,g	t,s,a	ជ			ч		a,t,s	i,v,t	v,i,l	u'b	t, s,a,g	l,i	>	h,n r	
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APPROTED O.G. FIG. 2

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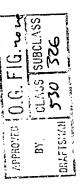
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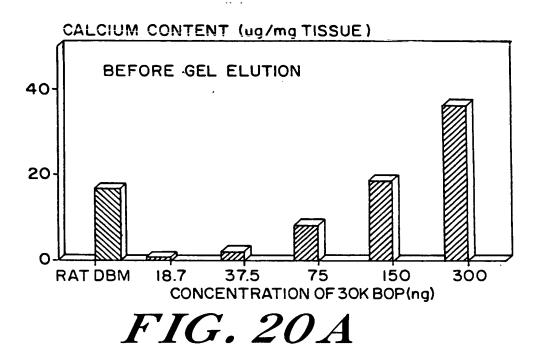
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# FIG. 18-4

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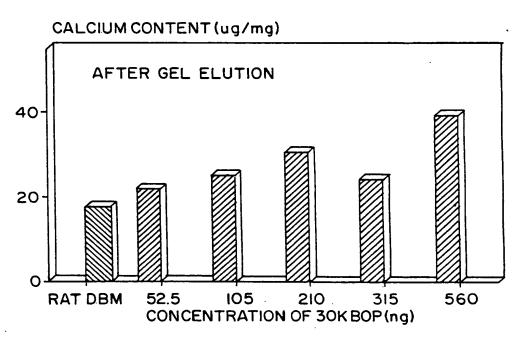
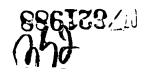


FIG. 20B







ORFIESTAN O.G. FIG. COLASS BY CLASS SUBCLASS

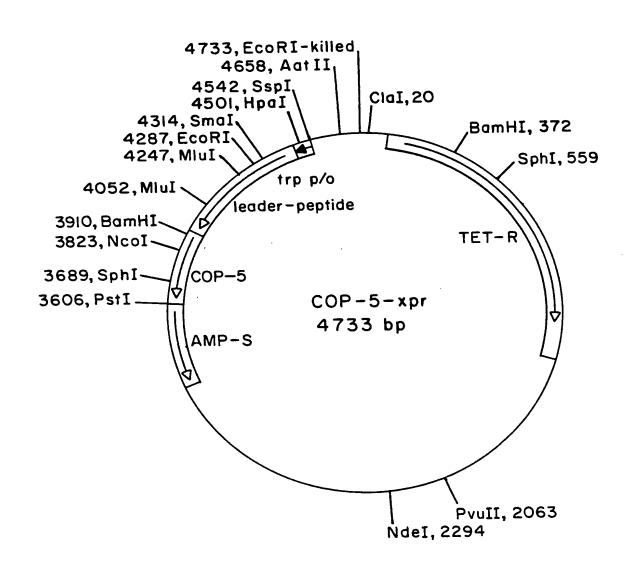


FIG. 21A





#### COP-5 fusion protein

10				20				30			40			50		
ATG.	AAA	GCA	ĀTT	TTC	GTA	CTG	AAA	GGT	TCA	CTG	GAC	AGA	GAT	CTG	GAC	TC
M	K	A	I	F	V	L	K	G	S	L	D	R	D	L	D	S
												B	alI	I		

- 60 70 80 90 100
  TCGTCTGGATCTGGACGTTCGTACCGACCACAAAGACCTGTCTGATCACC
  R L D L D V R T D H K D L S D H
- 110 120 130 140 150
  TGGTTCTGGTCGACCTGGCTCGTAACGACCTGGCTCGTATCGTTACTCCC
  L V L V D L A R N D L A R I V T P
  SalI Sma
- 160 170 180 190 200
  GGGTCTCGTTACGTTGCGGATCTGGAATTCATGGCTGACAACAAATTCAA
  G S R Y V A D L E F M A D N K F N
  I ECORI
- 210 220 230 240 250

  CAAGGAACAGCAGAACGCGTTCTACGAGATCTTGCACCTGCCGAACCTGA

  K E Q Q N A F Y E I L H L P N L

  Mlui Bglii BspMi+
- 260 270 280 290 300
  ACGAAGAGCAGCGTAACGGCTTCATCCAAAGCTTGAAGGATGAGCCCTCT
  N E E Q R N G F I Q S L K D E P S
  HindIII
- 310 320 330 340 350
  CAGTCTGCGAATCTGCTAGCGGATGCCAAGAAACTGAACGATGCGCAGGC
  Q S A N L L A D A K K L N D A Q A
  NheI FspI
- 360 370 380 390 400 ACCGAAATCGGATCAGGGGCAATTCATGGCTGACAACAAATTCAACAAGG P K S D Q G Q F M A D N K F N K
- 410 420 430 440 450

  AACAGCAGAACGCGTTCTACGAGATCTTGCACCTGCCGAACCTGAACGAA
  E Q Q N A F Y E I L H L P N L N E
  MluI BglII BspMI+
- 460 470 480 490 500
  GAGCAGCGTAACGGCTTCATCCAAAGCTTGAAGGATGAGCCCTCTCAGTC
  EQRNGFIQSLKDEPSQS
  HindIII

g 886139/10 FIG. 21B-I

APPROVED O.G. FIG. 10 LAS BY CLASS SUBCLASS

76) 88613371 APPROVED O.G. FIG. rock
BY CLASS SUBCLASS
BRATELIAN 530 326



560 570 580 590 600
AGGATCCTAATGGGCTGTACGTCGACTTCAGCGACGTGGGCTGGGACGAC
K D P N G L Y V D F S D V G W D D
Bamhi Sali

610 620 630 640 650
TGGATTGTGGCCCACCAGGCTACCAGGCCTTCTACTGCCATGGCGAATG
W I V A P P G Y Q A F Y C H G E C
Stul Ncol Bsml+

660 670 680 690 700
CCCTTTCCCGCTAGCGGATCACTTCAACAGCACCAACCACGCCGTGGTGC
PFPLADHFNSTNHAVV
NheI DraIII
Pf1MI

710 720 730 740 750
AGACCCTGGTGAACTCTGTCAACTCCAAGATCCCTAAGGCTTGCTGCGTG
Q T L V N S V N S K I P K A C C V
MStII

760 770 780 790 800
CCCACCGAGCTGTCCGCCATCAGCATGCTGTACCTGGACGAGAATGAGAA
P T E L S A I S M L Y L D E N E K
SphI

810 820 830 840 850 GGTGGTGCTGAAGAACTACCAGGAGATGGTAGTAGAGGGCTGCGCTGCC V V L K N Y Q E M V V E G C G C Pflmi

860 GCTAACTGCAG R \* PstI

FIG. 21B-2

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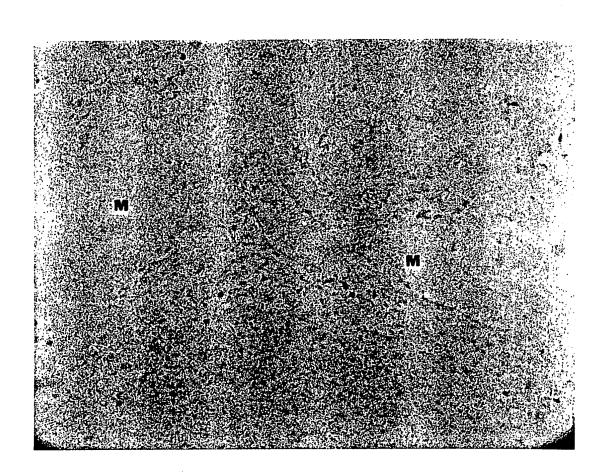


FIG. 22A



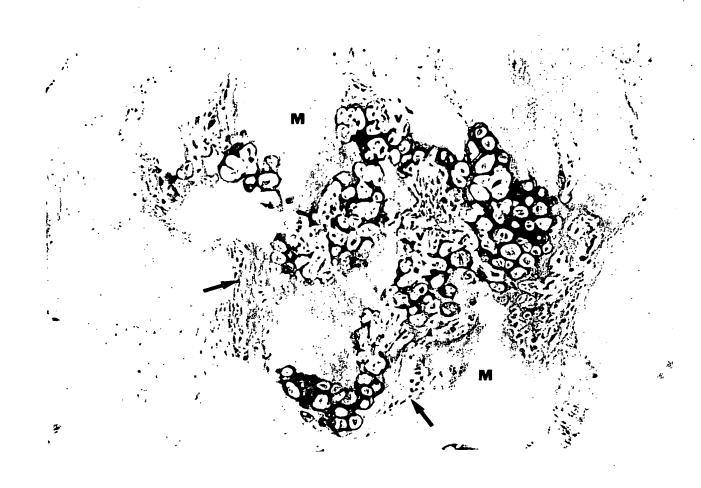


FIG. 22B

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